

II
BOROUGH OF



GRAVESEND



ANNUAL REPORT OF THE Medical Officer of Health FOR THE YEAR 1965

G. P. MERSON
M.B., Ch.B., D.P.H.
Medical Officer of Health

HEALTH COMMITTEE, 1965

THE MAYOR (Councillor Mrs. G. M. Batson, J. P.)

Councillor A. J. Shuttlewood (*Chairman*)

Councillor P. J. Walsh (*Vice-Chairman*)

Alderman R. H. Goodwin

Alderman A. J. Coles

Councillor Mrs. M. O. Creese, M.B.E.

Councillor C. H. Sutor

Councillor C. A. White, J.P.

Councillor K. C. W. Pearson

Councillor B. Black, J.P.

Councillor T. Fenton

Councillor D. Manley

Councillor J. W. Robinson

Councillor F. G. K. Bowles

HEALTH DEPARTMENT STAFF

Medical Officer of Health

GEORGE POLSON MERSON, M.B., Ch.B., D.P.H.

Chief Public Health Inspector

* K. MCINTYRE, M.A.P.H.I.

Deputy Chief Public Health Inspector

* K. V. SPROAT, M.A.P.H.I.

District Public Health Inspectors

* B. L. M. CLARK, M.A.P.H.I.

J. WANN, M.A.P.H.I.
(Commenced 18th January, 1965)

Pupil Public Health Inspector

B. GILMOUR

Clerical Staff

A. H. BAKER, Chief Clerk to Public Health Inspector

MISS G. PUTTIFER

MRS. J. WELLS

MISS C. BRIGGS

NOTE - * Hold Meat and Food Inspection Certificate

HEALTH DEPARTMENT,
WOODVILLE TERRACE,
GRAVESEND.

MADAM MAYOR, MR. CHAIRMAN, MRS. CREESE AND GENTLEMEN,

I have much pleasure in presenting to you my Annual Report on the health of the Borough of Gravesend for the year 1965.

As is usual in these reports now I have nothing outstanding to report and I must repeat that the health of the residents has been good and that there has been no outbreak of any serious infectious disease.

The population of Gravesend is now estimated to 54,550. There were registered 1,235 live births in the Borough: and deaths at 551 were practically the same as last year (552) - giving a natural increase in population of 684.

Infantile Mortality Rate in the Borough dropped from 23.41 to 16.19, and the Neo-natal Mortality Rate dropped from 16.47 to 12.95.

Generally speaking the Birth Rate, the Death Rate and the Infant Mortality Rate were better than the rate for England and Wales.

There is still one unfilled vacancy in the Establishment of Health Inspectors. This reflects the shortage generally of trained health staff.

In conclusion I would like to thank the Health Inspectorate and Clerical Staff for their hard work during the year under review.

I am, Madam Mayor, Mr. Chairman, Mrs. Creese and Gentlemen,

Your obedient Servant,

G. P. MERSON

Medical Officer of Health

SECTION ^{63A} A

STATISTICS AND SOCIAL CONDITIONS OF THE BOROUGH

Area of the Borough (acres)	..	..	..	4, 619
Registrar-General's estimate of the Population	..	..	..	54, 550
Number of separate inhabited houses (at 31.3.66)	..	..	..	16, 418
Rateable Value (at 31.3.66)	..	..	..	£1, 936, 910
Sum represented by a Penny Rate	..	..	..	£7, 637

Rates (to 31st March, 1966) - 10s. 7d. in the £

Number of Dwelling Houses built during 1965 -

Corporation	Number of Units completed	169
Private Enterprise	Number of Units completed	192
		<u>361</u>

REGISTERED LIVE BIRTHS

		Males	Females	Total
Legitimate	..	616	547	1, 163
Illegitimate	..	<u>45</u>	<u>27</u>	<u>72</u>
Total live births		<u>661</u>	<u>574</u>	<u>1, 235</u>

Crude Birth Rate per 1,000 population - 22.62

STILL BIRTHS

		Males	Females	Total
Legitimate	..	11	6	17
Illegitimate	..	-	3	3
		<u>11</u>	<u>9</u>	<u>20</u>

Still Birth Rate - i.e., Rate per 1,000 total (live and still) births	-	15.68
Still Birth Rate per 1,000 population	-	0.36

REGISTERED DEATHS - All causes at all ages - 551

Males	Females	Total
276	275	551

Crude Death Rate per 1,000 population - 10.10
(The previous year it was 9.90)

DEATHS FROM PUPERAL CAUSES - Nil

NATURAL INCREASE IN POPULATION (Excess of Births over Deaths) .. 684

INFANT DEATHS - under 1 year of age

	Males	Females	Total
Legitimate Infants ..	11	8	19
Illegitimate Infants ..	-	1	1
	11	9	20
	—	—	—

DEATH RATE OF INFANTS UNDER 1 YEAR OF AGE:-

Infant Mortality Rate, i.e. All infants per 1,000 live births ..	16.19
Legitimate infants per 1,000 legitimate live births ..	16.33
Illegitimate infants per 1,000 illegitimate live births ..	13.88

NEO-NATAL MORTALITY RATE (deaths under 4 weeks per 1,000 total live births) 12.95

EARLY NEO-NATAL MORTALITY RATE (deaths under 1 week per 1,000 total live births) 12.14

PERINATAL MORTALITY RATE (stillbirths and deaths under 1 week combined per 1,000 total live and stillbirths) 27.88

COMPARATIVE BIRTH AND DEATH RATES

Rates	Gravesend	England and Wales
Birth Rate	20.81	18.00
Death Rate	11.31	11.50
Infant Mortality Rate	16.19	18.09
Still Birth Rate	00.36	00.26

BOROUGH OF GRAVESEND

BIRTHS AND DEATHS

BIRTH AND DEATH RATES FOR LAST TEN YEARS

	YEAR	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965
Number of births		788	793	855	911	1,040	1,069	1,177	1,178	1,153	1,235
Crude Birth Rate (per 1,000 population)		16.53	16.90	18.32	18.83	21.18	20.86	22.66	22.12	21.15	22.62
Number of deaths		495	445	485	497	501	502	527	552	531	551
Crude Death Rate (per 1,000 population)		10.38	9.48	10.39	10.27	10.20	9.80	10.14	10.36	9.90	10.10

CAUSES OF DEATH IN GRAVESEND FOR 1965
AS PROVIDED BY THE REGISTRAR GENERAL

			Male	Female	Total
1.	Tuberculosis, Respiratory	..	..	-	1
2.	Tuberculosis, Other forms	..	..	1	1
3.	Syphilitic disease	..	..	-	1
4.	Diphtheria	..	..	-	-
5.	Whooping Cough	..	..	-	-
6.	Meningococcal infections	..	..	-	-
7.	Acute poliomyelitis	..	..	-	-
8.	Measles	..	..	-	-
9.	Other infective and parasitic diseases		-	-	-
10.	Malignant neoplasm, stomach	..	12	6	18
11.	Malignant neoplasm, lung, bronchus	..	30	2	32
12.	Malignant neoplasm, breast	..	-	16	16
13.	Malignant neoplasm, uterus	..	-	3	3
14.	Other malignant and lymphatic neoplasms		30	24	54
15.	Leukaemia, aleukamia	..	1	1	2
16.	Diabetes	..	1	4	5
17.	Vascular lesions of nervous system	..	32	53	85
18.	Coronary disease, angina	..	70	48	118
19.	Hypertension with heart disease	..	1	4	5
20.	Other heart disease L.	..	20	42	62
21.	Other circulatory disease	..	5	13	18
22.	Influenza	..	-	1	1
23.	Pneumonia	..	24	13	37
24.	Bronchitis	..	12	2	14
25.	Other diseases of respiratory system	..	1	1	2
26.	Ulcer of stomach and duodenum	..	-	-	-
27.	Gastritis, enteritis and diarrhoea	..	-	-	-
28.	Nephritis and nephrosis	..	2	5	7
29.	Hyperplasia of prostate	..	-	-	-
30.	Pregnancy, childbirth, abortion	..	-	1	1
31.	Congenital malformations	..	3	4	7
32.	Other defined and ill-defined diseases		17	23	40
33.	Motor vehicle accidents	..	7	3	10
34.	All other accidents	..	3	3	6
35.	Suicide	..	4	1	5
36.	Homicide and operations of war	..	-	-	-
			<u>276</u>	<u>275</u>	<u>551</u>

INFECTIOUS DISEASE NOTIFIED DURING 1965

Disease	Age						Age			Age			Age			Number Removed to Hospital
	Under one year	One and under 3 years	3 and under 5 years	5 and under 10 years	10 and under 15 years	15 and under 25 years	25 and under 45 years	45 and under 65 years	65 years and over	Total						
Ophthalmia Neonatorum	..	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dysentery ..	..	..	-	1	1	-	-	-	-	-	-	-	-	-	2
Erysipelas ..	..	..	-	-	-	-	-	-	-	-	-	-	-	-	2
Food Poisoning ..	..	..	-	-	-	-	-	1	2	-	-	-	-	-	3
Measles ..	..	..	48	286	360	323	5	1	-	-	-	-	-	-	1,023
Meningococcal Infection ..	..	..	1	-	-	-	-	-	-	-	-	-	-	-	1
Pneumonia ..	..	..	1	-	1	-	1	-	-	1	1	-	-	-	5
Acute Poliomyelitis - Paralytic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Non-Paralytic	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Puerperal Pyrexia ..	..	..	-	-	-	-	-	1	2	-	-	-	-	-	3
Scarlet Fever ..	..	..	-	-	1	2	-	1	-	-	-	-	-	-	4
Whooping Cough ..	..	..	2	1	2	-	-	-	-	-	-	-	-	-	5
Respiratory Tuberculosis ..	-	-	-	-	-	-	3	4	5	2	14	6	-	-	6	
Non-Respiratory Tuberculosis	-	-	-	-	-	-	2	3	1	-	-	-	-	-	3	
	52	288	365	325	5	10	11	7	5	1,068	9					

SECTION B

GENERAL PROVISION OF HEALTH SERVICES IN THE AREA

LABORATORY FACILITIES

The laboratory of the Public Health Laboratory Service for this area is situated at Preston Hall, Maidstone, under the direction of Dr. Furniss.

Routine bacteriological examination of drinking water and swimming pool water and ice cream, and the examination of sterilized milk for the turbity test, are carried out at this laboratory. Results are tabulated elsewhere in the report.

The following services are provided by the County Council:-

MATERNITY AND CHILD WELFARE CLINICS

- (1) Ante-Natal Clinics.
- (2) Infant Welfare Clinics.
- (3) Diphtheria and Poliomyelitis Immunisation Clinics.
- (4) Dental Clinics.
- (5) Speech Therapy Clinics.
- (6) Child Guidance Clinics.

MIDWIFERY SERVICE

There are nine County Midwives serving the Gravesend area.

Names of midwives, and any other information, may be obtained from the District Office (District Officer, Mr. B. J. Fleming, Arthur Street, Gravesend. (Telephone: Gravesend 2166)

GRAVESEND AND NORTH KENT HOSPITAL

The Out-patient Clinics at the Hospital are as follows:-

MONDAY

9.00 a.m.	Medical Clinic	Dr. J. Donaldson Craig
9.30 a.m.	Ear, Nose and Throat Clinic	Mr. Golding Wood
2.00 p.m.	Medical Clinic	Dr. R. Moir

TUESDAY

9.00 a.m.	Dental Clinic	Mr. F. Wilkinson
9.45 a.m.	Dermatology Clinic	Dr. R. Cairns
10.30 a.m.	Ophthalmic Clinic	Mr. J. N. Ormrod
11.30 a.m.	Surgical Clinic	Mr. M. Landau
2.30 p.m.	Fracture Clinic	
3.00 p.m.	Ante-Natal Clinic	Mr. A. M. Hunter
4.00 p.m.	Gynaecological Clinic	Mr. A. M. Hunter

WEDNESDAY

9.00 a.m.	Surgical Clinic	Mr. A. M. G. Tompkin
2.00 p.m.	Psychiatric Clinic	Dr. J. P. Crawford
2.00 p.m.	Psychiatric Clinic	Dr. J. C. Stewart
3.00 p.m.	Psychiatric Clinic	Dr. S. W. Hardwick

THURSDAY

8.45 a.m.	Paediatric Clinic	Dr. F. Elgood
9.30 a.m.	Ophthalmic Clinic	Mr. G. Simmons
9.30 a.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner
1.30 p.m.	Medical Clinic	Dr. J. Donaldson Craig
2.00 p.m.	Orthopaedic Clinic	Mr. R. H. V. Hafner

FRIDAY

8.30 a.m.	Gynaecological Clinic	Mr. G. Dalley
9.00 a.m.	Dental Clinic	Mr. F. Wilkinson
10.15 a.m.	Fracture Clinic	Mr. R. H. V. Hafner
10.30 a.m.	Ante-Natal Clinic	Mr. W. Gross
2.00 p.m.	Surgical Clinic	Mr. Sol. M. Cohen
2.00 p.m.	Psychiatric Clinic	Dr. J. P. Crawford
2.00 p.m.	Psychiatric Clinic	Dr. W. N. L. Haynes

MATERNITY AND CHILD WELFARE

NOTIFICATION OF BIRTHS

The number of live and still births occurring in Gravesend during the year was 1,021. After correction for those whose usual residence is elsewhere (i.e. 140 transferred "out" and 234 transferred "in") the number properly belonging to the Borough was 1,255 (1,235 live births and 20 still births) compared with 1,166 in the previous year.

PARTICULARS OF BIRTHS OCCURRING IN GRAVESEND.

Total number of live and still births occurring in Gravesend	1,021
Number of live births actually belonging to Gravesend	874
Number of still births actually belonging to Gravesend	7
Number of live births (non-residents)	135
Number of still births (non-residents)	<u>5</u>
	1,021

NUMBER OF BIRTHS OCCURRING IN HOSPITAL

	Live Births	Still Births
Number of infants born in Hospital - (residents)	297	6
Number of infants born in Hospital - (non-residents)	135	5

HEALTH VISITORS

The following Health Visitors are employed in the Gravesend area and can be contacted at their respective welfare centres:-

Miss N. G. Cappaert, S.R.N., S.C.M.	-	Windmill Street Welfare Centre
Miss M. C. Craddock, S.R.N., S.C.M.	-	Windmill Street Welfare Centre
Miss C. James, S.R.N., S.C.M.	-	"The Nest" Welfare Centre
Mrs. G. O. Curling, S.R.N., S.C.M.	-	"The Nest" Welfare Centre
Miss E. M. Kenworthy, S.R.N., S.C.M.	-	Whitehill Welfare Centre
Miss D. A. Knowles, S.R.N., S.C.M., R.S.C.M.	-	Whitehill Welfare Centre
Miss J. R. L. Morgan, S.R.N.	-	Windmill Street Welfare Centre
Miss M. G. F. White, S.R.N.	-	Windmill Street Welfare Centre
Miss B. Corkill	-	"The Nest" Welfare Centre

The following are specialist Health Visitors for tuberculosis:-

The school nurse is Mrs. N. D. Shiel.

MATERNITY AND CHILD WELFARE CENTRES

The four Welfare Centres in the Borough are Wrotham
"The Nest" (Denton and Chalk District), and

The sessions are as follows:-

	WROTHAM ROAD	WHITEHILL
MONDAY	<i>Morning</i>	<i>Afternoon</i>
	Child Welfare Clinic - Medical Officer in attendance; Diphtheria Immunisation and Vaccinations; Health Visitors Consultations; Sale of Foods, etc.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Sale of Foods, etc.
	*** Speech Therapy	
TUESDAY		<i>Afternoon</i>
	*** Chiropody.	Ante-Natal Clinic and Midwives' Clinic combined.
WEDNESDAY	<i>Morning</i>	<i>Afternoon</i>
	School Clinic. *** Chiropody. *** Speech Therapy.	Midwives' Clinic.
	<i>Afternoon</i>	<i>Evening</i>
	Mothercraft and Relaxation Classes.	Mothercraft and Relaxation Classes.
THURSDAY	<i>Morning</i>	<i>Afternoon</i>
	*** Chiropody. *** Ophthalmic Clinic. *** Speech Therapy.	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Sale of Foods, etc.
	<i>Afternoon</i>	
	Ante-Natal Clinic. Midwives' Clinic.	
FRIDAY	<i>Morning</i>	<i>Afternoon</i>
	School Clinic. *** Speech Therapy.	** Mothercraft and Relaxation Classes.
	<i>Afternoon</i>	
	Child Welfare Clinic - Medical Officer in attendance; Diphtheria Immunisation and Vaccinations; Health Visitors Consultations; Sale of Foods, etc.	

Road (Central), Whitehill (King's Farm Estate),
St. Christopher's Centre (Riverview Park).

	THE NEST ^{**}	ST. CHRISTOPHER'S CENTRE
MONDAY	<i>Afternoon</i>	
	Child Welfare Clinic - Health Visitors Consultations; Baby Weighing; Sale of Foods, etc.	
TUESDAY		<i>Morning</i>
		10-12 Child Welfare Clinic; Immunisations.
		<i>Afternoon</i>
		2-4 Ante-Natal Clinic.
		3-4 Child Welfare Clinic; Immunisations.
WEDNESDAY	<i>Afternoon</i>	
	Child Welfare Clinic - Medical Officer in attendance; Health Visitors Consultations; Baby Weighing; Sale of Foods, etc.	
THURSDAY	<i>Morning & Afternoon</i>	<i>Afternoon</i>
	Speech Therapy Clinic.	2-4 Relaxation Classes.
		2-4 Child Welfare Clinic; Immunisations.
FRIDAY	<i>Afternoon</i>	<i>Afternoon</i>
	* Ante-Natal Clinic; Midwives' Clinic.	2-4 Child Welfare Clinic; Immunisations.

- * First and third Fridays in each month.
- ** Except second Friday in each month.
- *** By appointment.

ATTENDANCE AT CHILD WELFARE CENTRES

The attendances at the four Welfare Centres during the year were:-

(a) Individual children under 1 year of age	1,356
(b) Individual children between 1 and 5 years	3,378
(c) Total number of attendances of all children under 5 years	21,624

For the year 1964 the figures were -

(a) 1,072 (b) 2,009 (c) 22,021

ANTE-NATAL CLINICS

Ante-Natal clinics are held at Wrotham Road, Whitehill, "The Nest" and St. Christopher's, Riverview Park. A total number of 1,252 expectant mothers attended and the total attendances were 5,774.

DENTAL TREATMENT

Dental treatment for expectant and nursing mothers, children under five years and school children is provided at the Dental Clinic, Wrotham Road. (Telephone: Gravesend 64157).

The clinic is open at the following times:-

Monday to Friday	A. M.	9.00 - 12 noon
	P. M.	1.30 - 4.30

OPHTHALMIC TREATMENT

The County Ophthalmic Clinic for school children is held at the Gravesend and North Kent Hospital as follows:-

Tuesday	A. M.	9.30 - 10.30
Thursday	A. M.	9.30 - 12.00
	P. M.	2.00 - 4.00

Mr. K. McIntyre, Chief Public Health Inspector, has supplied the statistics relating to Public Health Inspection. Housing, Food, Factory Inspection and Atmospheric Pollution.

SECTION C

SANITARY CIRCUMSTANCES OF THE AREA

WATER SUPPLY

PUBLIC DRINKING SUPPLIES

The Medway Water Board supply water to the Borough.

The water has been satisfactory -

(a) in quantity (b) in quality

The water is hard and there is no evidence of plumbago-solvent action.

BACTERIOLOGICAL EXAMINATION

Samples were taken at regular intervals and were found to be satisfactory with the exception of three.

Number of samples taken: -

Raw water	..	..	..	0
Treated water	..	..	..	52

CHEMICAL ANALYSIS

One sample of treated water was taken and reported to be satisfactory.

Note: Tabulated summaries of all water samples taken and results of examination are shown on pages 41, 42, 43, 44 and 45.

CORPORATION BATHING POOL

The Open-air Bathing Pool opened in 1938 has accommodation for 1,200 bathers. The main pool is 150 feet long by 75 feet wide and has two shallow areas and a diving pit. The 400,000 gallons of water in the pool are filtered, aerated and sterilised. Wide surrounds and large areas are provided for sun-bathing, whilst a spectators' terrace surrounds the site. On the first floor of the building a Cafe and Spectators' Gallery are provided, affording a splendid view of the whole site. There is also a Children's Paddling Pool, 50 feet by 50 feet, with its own surround, separated from the main pool by a terrace.

During the 1965 season the following persons used the Pools:-

Bathers and Spectators	80,100
Schoolchildren	26,362
Season Ticket and Pass Holders	20,963
Club Members	4,168
National Sea Training School	623
Old Age Pensioners	333
	<hr/>
	132,549

HYGIENIC ARRANGEMENTS AT BATHING POOL

The Medical Officer of Health has continued to keep the hygienic arrangements at the Pool under supervision. "Breakpoint Chlorination", which was put into operation in 1948, appears to be working efficiently.

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

Fifteen samples were taken from the Corporation pool and 18 from school pools. See tabulated summary on pages 44 and 45.

SLIPPER BATHS

The Slipper Baths at the Corporation Bathing Pool were opened in January 1949.

There are separate sections for males and females - 7 baths being allocated to males and 3 to females.

FACTORIES ACT, 1961

I. The Council has the duty to enforce certain provisions of Parts I, IV and VIII of the Factories Act, 1961.

Administrative arrangements include the following:-

Part I - Health (General Provisions)

- (1) Registration of all factories.
- (2) Inspection of sanitary conveniences in all factories.
- (3) Inspection with regard to cleanliness, over-crowding, temperature, ventilation and drainage of floors in all factories in which mechanical power is not used.

Part IV - Basement Bakehouses

- (1) The quinquennial examination of basement bake-houses and the renewal or cancellation of Certificates of Suitability.

Part VIII - Home Work

- (1) Examination of lists, supplied to the Council by employers of outworkers in certain specified trades.
- (2) Notification of name and place of employment of any home worker employed outside the Borough to the Council in whose district his employment is situated.
- (3) Inspection of premises in which the outworker pursues his occupation.

The provisions of the Act, so far as they affect local authorities, have been enforced.

PRESCRIBED PARTICULARS OF THE ADMINISTRATION
OF THE FACTORIES ACT, 1961
PART I

1. Inspections for purposes of provisions as to Health
(including inspections made by Public Health Inspectors)

Premises	Number on Register	Inspections	Written Notices	Owners Prosecuted
(i) Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by local authorities	19	25	-	-
(ii) Factories not included in (i) in which Section 7 is enforced by local authorities	122	120	2	-
(iii) Other premises in which Section 7 is enforced by the local authority (excluding outworkers premises)	5	9	-	-
	146	154	2	-

2. Cases in which defects were found:-

Particulars	Number of cases in which defects were found				Number of cases in which prosecutions were instituted
	Found	Remedied	Referred To H.M. Inspector	By H.M. Inspector	
Want of cleanliness ..	-	-	-	-	-
Overcrowding	-	-	-	-	-
Unreasonable temperature	-	-	-	-	-
Inadequate ventilation ..	-	-	-	-	-
Ineffective drainage of floors	-	-	-	-	-
Sanitary Conveniences:-					
(a) insufficient ..	1	-	-	2	-
(b) unsuitable or defective ..	6	4	-	-	-
(c) not separate for sexes	-	-	-	-	-
Other offences against the Act (not including offences relating to Outwork) ..	2	1	-	-	-
	9	5	-	2	-

PART VIII OF THE ACT
OUTWORK - SECTION 133 AND 134

Nature of Work	SECTION 133			SECTION 134		
	No. of outworkers in August list re- quired by Sec. 133(1) (c)	No. of cases in default in sending lists to the Council	No. of prosecu- tions for failure to supply lists	No. of instances of work in unwhole- some premises	Notices served	Prose- cutions
Wearing apparel (making, etc.)	28	-	-	-	-	-
Furniture and Upholstery	2	-	-	-	-	-
Table linen	1	-	-	-	-	-
	31	-	-	-	-	-

BASEMENT BAKEHOUSES

PART IV OF THE ACT

Certificates of suitability are in operation in respect of two basement bakehouses.

PUBLIC HEALTH INSPECTION

SUMMARY OF VISITS BY PUBLIC HEALTH INSPECTORS

Dwelling house inspections	..	..	..	983
" " re-inspections	..	..	..	1,497
Visits to other premises:-				
Clean Air Act	..	..	..	27
Factories (with power)	..	..	..	120
Factories (without power)	..	..	..	34
Infectious diseases	..	..	..	81
Offensive trades	..	..	..	6
Offices, Shops & Railway Premises Act	..	..	..	2,737
Outworkers	..	..	..	19
Pet Shops	..	..	..	8
Piggeries and Stables	..	..	..	15
Public conveniences and urinals	..	..	..	20
Rodent control	..	..	..	172
Schools	..	..	..	42
Shops Acts	..	..	..	27
Food premises	..	..	..	1,341
Merchandise Marks Act	..	..	..	2
Miscellaneous visits	..	..	..	487
Visited for purposes of meat and food inspection:-				
Meat depots	..	..	..	16
Shops and other premises	..	..	..	150
				7,784

NOTICES SERVED

		<i>Informal</i>	<i>Statutory</i>
In respect of dwelling houses	..	268	33
In respect of other premises	..	461	1

NUISANCES AND DEFECTS REMEDIED

HOUSES:

Accumulations removed	..	..	..	10
Animals causing a nuisance	..	..	..	1
Dustbins provided	..	..	..	121
Cesspools repaired	..	..	..	5
Chimney stacks - repaired	..	..	..	2
- new pots provided	..	..	..	1
Dampness - sub-floor ventilation provided		..		1
- damp-proof courses provided	..	..		1
- external walls repainted or rendered		..		7
Doors and door sills repaired or renewed	..	..		4
Drainage - relaid	..	..	..	17
- unstopped ..	..	..	..	20
- I.C. chambers or covers provided or repaired				13
- soil and ventilating pipes removed		..		1
- soil and ventilating pipes provided or repaired				3
- gullies, etc. provided or repaired		..		3
- sewers unstopped ..	..	..	..	17
Floors relaid or repaired	..	..	..	7
Food cupboards ventilated	..	..	..	1
Guttering or rainwater pipes renewed or repaired		..		27
Lavatory basins renewed or repaired	..	..		-
Light and ventilation improved ..	..	..		1
Paving relaid or repaired	..	..	..	4
Roofs repaired	..	..	..	15
Rooms, passages and staircases - walls repaired		..		44
- ceilings repaired ..				7
- staircases repaired				1
Sinks - new provided ..	..	..	..	-
- waste pipes renewed or repaired ..			..	5
Stoves and fireplaces renewed or repaired		..		1
Verminous premises disinfested ..	..	..		6
Water supply - water pipes, etc. repaired		..		7
Water closets - repaired and/or cleansed ..		..		4
- new pans ..	..	..	..	3
- pans cleansed or unstopped			..	7
- cisterns provided or repaired		..		5
- seats renewed or repaired		..		6

HOUSES (contd.):

Windows - renewed or repaired	10
- sashcords and weights provided or repaired ..	2
- sills renewed or repaired	7

FOOD PREMISES:

Premises repaired or cleansed	22
Utensils, equipment, etc., repaired or cleansed ..	9
Improvements	5
Personal cleanliness contraventions	5

PET ANIMALS ACT, 1951

Five premises are licensed within the district and 8 visits of inspection were made.

RODENT CONTROL

All infested premises notified to the Health Department or discovered during the course of inspection during the year were dealt with. The cost of disinfection at business premises by the Council's Rodent Officer is charged to the occupiers, but the work at dwelling houses is carried out free.

The following report summarises the work carried out by the Rodent Officer during the year 1965:-

Number of properties inspected	..	417
Number of properties found to be infested by:		
(a) Rats	..	291
(b) Mice	..	117
Number of properties treated	..	408

TREATMENT AGAINST RATS IN SEWERS

Treatment with Poison:

Number of manholes treated	..	..	78
Number of manholes showing complete takes			Nil
Number of manholes showing partial takes			25

SECTION D

HOUSING

1. Inspection of dwelling houses during the year:-

Total number inspected for housing defects ..	..	..	617
Number of inspections made for the purpose ..	..	..	1,197

2. Unfit houses made fit:-

After informal action by Local Authority ..	..	..	13
After formal notice under Public Health Acts ..	..	..	5
After determination of a Demolition Order under Section 24, Housing Act, 1957 ..	..	..	2
After determination of a Closing Order under Section 27, Housing Act, 1961 ..	..	..	1

3. Houses in which defects were remedied:-

After informal action ..	..	..	..	79
After formal notice under Public Health Acts ..	..	..	..	22

4. Houses Demolished:-

In or adjoining Clearance Areas:-

(a) Unfit for human habitation ..	..	..	..	18
(b) On land acquired under Section 43(2) Housing Act, 1957 ..	..	..	..	19

5. Unfit houses closed:-

Under Sections 16(4), 17(1) and 35(1), Housing Act, 1957
and Section 26, Housing Act, 1961:-

Number of Houses	1
---------------------	----	----	----	---

6. Displacement: -

(a) Number of persons displaced:-

From houses in or adjoining Clearance Areas	155
From houses not in or adjoining Clearance Areas	..
From houses to be closed	..
From parts of buildings to be closed	..

(b) Number of families displaced:-

From houses in or adjoining Clearance Areas	50
From houses not in or adjoining Clearance Areas	..
From houses to be closed	..
From parts of buildings to be closed	..

HOUSING ACT 1957, PART III

Peppercroft Street Compulsory Purchase Order 1963

Rehousing continued throughout the year from this area, and all the displacements listed were from houses included in this Order.

RENT ACT 1957 - FIRST SCHEDULE

Part I - Applications for Certificates of Disrepair:

(1) Number of applications for certificates	..	Nil
(2) Number of decisions not to issue certificates	..	Nil
(3) Number of decisions to issue certificates	..	
(a) in respect of some but not all defects	..	Nil
(b) in respect of all defects	..	Nil
(4) Number of undertakings given by landlords	..	Nil
(5) Number of undertakings refused by Local Authority	..	Nil
(6) Number of certificates issued	..	Nil

RENT ACT 1957 - FIRST SCHEDULE (contd.)

PART II - Applications for Cancellation of Certificates.

(1) Applications by landlords to Local Authority for cancellation of certificates .....	..	..	..	Nil
(2) Objections by tenants to cancellation of certificates .....	..	..	..	Nil
(3) Decisions by Local Authority to cancel in spite of tenants' objection .....	..	..	..	Nil
(4) Certificates cancelled by Local Authority .....	..	..	..	Nil

OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963

This Act, which came into force during 1964, makes fresh provisions for securing the health, safety and welfare of persons employed in certain non-industrial premises.

At 31st December, 1965, 636 premises had been registered in the following categories:-

Offices .....	..	..	..	137
Retail shops .....	..	..	..	410
Wholesale shops and warehouses .....	..	..	..	19
Catering establishments .....	..	..	..	70

The number of persons employed in the 636 premises is:-

Males .....	..	..	1, 761
Females .....	..	..	<u>2, 848</u>
			<u>4, 609</u>

Analysis of persons employed in classes of workplace:-

Offices .....	..	..	..	1, 335
Retail shops .....	..	..	..	2, 514
Wholesale shops and warehouses .....	..	..	..	244
Catering establishments open to the public .....	..	..	..	489
Canteens .....	..	..	..	<u>27</u>
				<u>4, 609</u>

The following figures show the work carried out during 1965:-

Number of registered premises receiving a general inspection	584
Number of visits of all kinds by inspectors to registered premises ..	2,737
Number of notices or requests made regarding infringements	423
Number of notices or requests complied with ..	302

The 302 notices and requests complied with during 1965 comprised 676 items, classified as follows:-

Section 4 To cleanse premises	8
" 5 To abate overcrowding	2
" 6 To provide or improve heating	12
" 6 To provide thermometers	166
" 7 To provide or improve ventilation	9
" 8 To provide or improve lighting	7
" 9 To provide or improve sanitary conveniences	76
" 10 To provide or improve washing facilities	92
" 11 To provide drinking water facilities	3
" 12 To provide accommodation for clothes	3
" 13 To provide sitting facilities	12
" 16 To provide handrails, etc; to keep stairs and passageways clear	74
" 17 To fence exposed parts of machinery	1
" 24 To provide first-aid equipment	160
" 50 To provide information for employees	51

SECTION E

INSPECTION AND SUPERVISION OF FOOD

Inspection of food premises is being maintained and the following is a summary of the visits made and notices served:-

		No. of Premises	No. of Visits	Number of Notices Served
Bakehouses	..	9	28	5
Butchers	..	41	128	6
Bakers' shops	..	27	55	1
Canteens	..	33	31	-
Catering premises	..	48	185	6
Confectioners	..	59	74	-
Cooked meat shops	..	22	58	-
Dairies and milkshops	..	70	86	-
Licensed premises, clubs, etc.	..	99	76	2
Fish-frying establishments		11	14	-
Fishmongers	..	22	37	2
Greengrocers	..	53	59	2
Ice cream premises	..	122	203	4
Provision dealers	..	112	307	6
		<hr/>	<hr/>	<hr/>
		728	1,341	34
		<hr/>	<hr/>	<hr/>

Note: Where premises carry on more than one type of business they are recorded under each appropriate type.

FOOD AND DRUGS ACT, 1955, SECTION 16

Premises registered:

(a) for the sale of ice cream	117
(b) for the manufacture and sale of ice cream ..	5
(c) for the preparation or manufacture of sausages, or potted, pressed, pickled or preserved food	61

THE MILK AND DAIRIES (GENERAL) REGULATIONS, 1959

Registered dairies	1
Registered milk distributors	69

THE MILK (SPECIAL DESIGNATION) REGULATIONS, 1963

Licences issued under these Regulations, to operate until 31st December, 1970, are as follows:-

Dealers' (Pasteurisers) Licences	..	1
Dealers' (Prepacked Milk) Licences	..	69

BIOCHEMICAL EXAMINATION OF MILK

Samples of milk were taken and submitted for biochemical examination and the results were as follows:-

Designation	No. of Samples		Results	
Pasteurised	85	Methylene Blue Test	Satisfactory	81
		Phosphatase Test	Unsatisfactory	4
Tuberculin Tested (Pasteurised)	6	Methylene Blue Test	Satisfactory	85
		Phosphatase Test	Unsatisfactory	-
Sterilised	24	Methylene Blue Test	Satisfactory	5
		Phosphatase Test	Unsatisfactory	1
Sterilised	24	Turbidity Test	Satisfactory	6
			Unsatisfactory	-

BACTERIOLOGICAL EXAMINATION OF ICE CREAM

Samples of ice cream were taken and submitted for bacteriological examination and the results were as follows:-

	Number of Samples		
Grade 1	44
Grade 2	8
Grade 3	5
Grade 4	3
			<hr/>
			60

Inspection of Food

The following food was surrendered as unfit for human consumption:-

(a) Carcase meat and offal:

Beef	115	lbs.	Pork	291½	lbs.
Kidneys	70¾	lbs.			

(b) Frozen foods:

Fish	534	packets	Pies	45	packets
Meat	255	packets	Sponges	7	packets
Mousse	75	packets	Vegetables	363	packets
Pastry	12	packets			

(c) Miscellaneous:

Baby Food	439	tins	Margarine	1½	lbs.
Bacon	73	lbs.	Marmalade	8	tins
Biscuits	12½	lbs.		5	jars
Butter	26	lbs.	Meat	1156	tins
Cake	17	lbs.	Meat Extract	4	jars
Cereals	86	tins	Meat Paste	7	jars
	53	packets	Milk	746	tins
	13	lbs.	Mincemeat	1	jar
Cheese	11¼	lbs.	Onions	1680	lbs.
Chicken	226½	lbs.	Peanut Butter	5	tins
Cocoa	1	packet	Pickles	21	jars
Coffee	1	tin	Pies	4	tins
Cream	284	tins		11	lbs.
Crisps	9	packets	Puddings	177	tins
Curry	1	tin	Rabbit	9	lbs.
Custard Powder	1	packet	Ravioli	7	tins
Fish	112½	lbs.	Rice	43	tins
	502	tins		2	packets
Flour	23	lbs.		3½	lbs.
Fruit	2931	tins	Salad Cream	7	bottles
	1	packet	Sauce	2	bottles
Fruit Juice	41	tins	Soup	1712	tins
	15	bottles	Spaghetti	94	tins
Honey	1	jar	Sugar	2	lbs.
Jam	56	tins	Tea	¼	lb.
	54	jars	Turkey	50	lbs.
Lard	3	lbs.	Vegetables	3028	tins
Lemon curd	1	jar		1	packet
Macaroni	37	tins			

Food and Drugs Act. 1955

Samples taken during the year and submitted for analysis were as follows. -

Article	Result of Analysis	
	Satisfactory	Unsatisfactory
Almond flavouring	1	-
Ammoniated quinine	-	1
Apples	1	-
Apricots	1	-
Arrowroot	1	-
Baking Powder	2	-
Beef, potted	1	-
Biscuits	1	-
Blackcurrant syrup	1	-
Bread	2	-
Butter	2	-
Cakes	3	-
Calcium drink	-	1
Calves' liver pate	1	-
Cheese	3	-
Cherries	1	-
Chutney	1	-
Cocoa	1	-
Cockles	2	-
Cochineal	1	-
Codis tablets	1	-
Coffee	2	-
Cold tablets	1	-
Condensed milk	1	-
Corned beef	2	-
Cornflour	1	-
Corn muffin mix	1	-
Cough lozenges	1	-
Crab meat	1	-
Cranberries	1	-
Cream	4	-
Curried chicken	1	-
Curry powder	1	-
Carried forward	44	2

Article	Result of Analysis	
	Satisfactory	Unsatisfactory
Brought forward	44	2
Dried milk	1	-
Fish cakes	1	-
Fish paste	1	-
Flour	2	-
Gelatine	1	-
Ground rice	1	-
Glycerine of thymol	1	-
Health drink	1	-
Herbs	1	-
Ice cream	7	-
Ice lolly	3	-
Jam	3	-
Jelly	2	-
Junior dinner	1	-
Lard	2	-
Lemon curd	1	-
Lemon juice	1	-
Lemonade powder	1	-
Liniment	1	-
Mango squash	1	-
Margarine	2	-
Marmalade	1	-
Marzipan	1	-
Mead	1	-
Milk	34	-
Mincemeat	2	-
Mince pies	1	-
Mixed peel	1	-
Mixed spice	1	-
Mustard	1	-
Nuts	2	-
Okra in tomato sauce	1	-
Onion powder	1	-
Orange drink	1	1
Peach pie filling	1	-
Pepper	1	-
Carried forward	129	3

Article	Result of Analysis	
	Satisfactory	Unsatisfactory
Brought forward	129	3
Phenergan tablets	1	-
Phensic tablets	1	-
Pickles	2	-
Pineapple juice	1	-
Pork	1	-
Prunes	1	-
Rasin flavoured beverage	1	-
Raspberries	1	-
Rusks	1	-
Saccharine	1	-
Sago pudding	1	-
Sandwich spread	1	-
Sardines	2	-
Sauce	3	-
Sausage rolls	2	-
Senna pods	1	-
Skimmed milk	1	-
Soup	1	-
Spirit of camphor	-	1
Sauerkraut	1	-
Suet	1	-
Sugar	1	-
Syrup of figs	1	-
Sweets	3	1
Tea	3	-
Tomato juice	1	1
Treacle	1	-
Vegetarian pate	1	-
Vegetable salad	1	-
Veganin tablets	1	-
Vitavel syrup	1	-
Water chestnut	1	-
Yoghourt	2	-
	171	6

Particulars of Samples Adulterated or
otherwise giving rise to Irregularity

Sample
No.

443 Tomato Juice: Unsatisfactory label. The attention of the retailer and supplier was drawn to this matter.

505 Ammoniated Tincture of Quinine: Deficient in ammonia. This irregularity was taken up with the retailer concerned.

508 Spirit of Camphor: Improperly labelled. The retailer's attention was drawn to this matter.

538 Orange Drink: Deficient in sugar. The manufacturers were notified.

584 Calcium Drink: Contained artificial sweetener. This irregularity was taken up with the manufacturer.

587 Marshmallow: Incorrectly named. The Public Analyst commented that the sample had the appearance, taste and texture of Turkish Delight. It was found upon investigation that there is a similarity in the ingredients used in both Marshmallow and Turkish Delight.

Food Complaints

Some 19 complaints were received involving foreign bodies in food, mouldy pies, etc. Four of these were reported to the Health Committee and warning letters were sent.

SECTION ⁶³ F²²

PREVALENCE AND CONTROL OVER INFECTIOUS AND ⁶⁶ OTHER DISEASES²⁰

INFECTIOUS DISEASES

The following notifiable infectious diseases were recorded:-

Measles	..	..	..	1,023
Whooping Cough	..	..	..	5
Tuberculosis - Respiratory	..	..	..	14
- Non-Respiratory	..	..	..	6
Pneumonia	..	..	..	5
Scarlet Fever	..	..	..	4
Erysipelas	..	..	..	2
Puerperal Pyrexia	..	..	..	3
Acute Poliomyelitis-Paralytic			..	-
Dysentery	..	..	..	2
Meningococcal Infection	..	..	..	1
Food Poisoning	..	..	..	3
				<hr/>
				1,068
				<hr/>

DIPHTHERIA IMMUNISATION

The following is a return of the number of children resident in the Borough who were immunised against Diphtheria during the year ended 31st December, 1965.

Year of Birth	Primary		Reinforcing	
	Triple	Diph. / Tet.	Triple	Diph. / Tet.
1965	488	5	-	-
1964	512	1	2	-
1963	34	2	418	33
1962	7	1	143	15
1961	4	2	26	40
1958 - 1960	11	2	168	369
1949 - 1957	2	2	8	12
	1,058	15	765	469

SMALLPOX PREVENTION

Vaccination is carried out at the Kent County Council Clinics and by General Practitioners.

The following is a return of the number of persons who were vaccinated against Smallpox at the Kent County Council Clinics during the year ended 31st December, 1965.

Primary Vaccination	Re-Vaccination
1 year	School Age but under 8 years
691	24

POLIOMYELITIS VACCINATION

The following table gives the number of persons resident in the Borough who received injections against Poliomyelitis during the year ended 31st December, 1965.

Year of Birth	3rd & 4th doses (Salk & Oral)	3 Orals (Complete Course)
1965	-	213
1964	6	687
1963	-	86
1962	-	38
1958 - 1961	583	48
1949 - 1957	64	12
	653	1,084

NOTIFICATION OF NEW CASES OF TUBERCULOSIS

In 1965, 20 fresh cases were notified. The following table gives comparative particulars over the last ten years:-

Year	Estimated Population of Registrar General	Pulmonary	Non-Pulmonary	Total
1956	47,670	31	5	36
1957	46,930	29	6	35
1958	46,660	27	1	28
1959	48,370	29	3	32
1960	49,110	21	5	26
1961	51,240	20	3	23
1962	51,950	26	6	32
1963	53,250	13	4	17
1964	53,590	14	6	20
1965	54,550	14	6	20

The sources from which the notifications of Tuberculosis were received:-

Chest Physicians	..	..	..	12
Private Medical Practitioners			..	-
Hospitals and Institutions	..		..	8

AGE AND SEX DISTRIBUTION OF TUBERCULOUS PATIENTS

The following table shows the age and sex distribution of our 20 new cases:-

Age Periods	Pulmonary		Non-Pulmonary	
	Male	Female	Male	Female
0 - 1	-	-	-	-
1 - 5	-	-	-	-
5 - 10	-	-	-	-
10 - 15	-	-	-	-
15 - 20	2	1	1	-
20 - 25	-	-	1	-
25 - 35	-	3	-	1
35 - 45	1	-	1	1
45 - 55	1	1	-	1
55 - 65	2	1	-	-
65 & over	1	1	-	-
	7	7	3	3

TUBERCULOSIS DEATHS AND DEATH RATE

There was 1 death registered from Pulmonary Tuberculosis. This gives a death rate of .01 per 1,000 population for all forms of tuberculosis.

The following table compares the figures for 1965 with those of previous years:-

Year	Pulmonary		Non-Pulmonary		TOTAL Rate per 1,000 Pop.
	Number of deaths	Rate per 1,000 Pop.	Number of deaths	Rate per 1,000 Pop.	
1956	4	.08	1	.02	.10
1957	7	.14	-	-	.14
1958	5	.11	2	.04	.15
1959	5	.10	-	-	.10
1960	9	.18	-	-	.18
1961	10	.19	-	-	.19
1962	8	.15	-	-	.15
1963	3	.05	-	-	.05
1964	5	.09	-	-	.09
1965	1	.01	1	.01	.02

TUBERCULOSIS REGISTER

The names of 77 persons were removed from the register for the following reasons:-

Deaths	..	..	..	..	4
Left the District	..	..	..	..	3
Recovered	..	..	..	..	66
Diagnosis not Confirmed	..	..	..	..	1
Refused Public Medical Treatment	..	..	..	..	3
Lost sight of	..	..	..	..	-
Emigrated	..	..	..	..	-
De-notified	..	..	..	..	-
					77

Three hundred and seventy-nine persons remained on the Register at the 31st December, 1965. They consist of the following:-

	Males	Females	Total
Pulmonary	201	136	337
Non-Pulmonary	25	17	42
	226	153	379

MASS RADIOGRAPHY

Two routine visits of the radiography unit in connection with regular chest X-ray examinations of men over the age of 45 were made during 1965.

INNOCULATION AGAINST TUBERCULOSIS

A substantial number of children have been vaccinated with B.C.G.

VENEREAL DISEASES

Dr. C. D. Routh, the Medical Officer in charge of the Gravesend Clinic, has kindly supplied the following statistics:-

			Males	Females	Total
New Patients - Gravesend					
Syphilis ..	..	..	1	2	3
Gonorrhoea ..	..	..	29	16	45
Other conditions ..	..	..	52	30	82
			82	48	130
			—	—	—
Total number of New Patients from all areas	..	..	..	..	327
Total number of attendances from all areas	..	..	..	..	1,270
Discharged cured (all districts):					
Syphilis ..	..	..	..	..	6
Gonorrhoea ..	..	..	..	..	47
Other conditions ..	..	..	..	..	182

VENEREAL DISEASE CLINIC - (South-Eastern Metropolitan Hospital Board)

Dr. C. D. Routh is in attendance at the Gravesend Clinic, 22 Cobham Street (telephone Gravesend 3061), at the following times:-

TUESDAY

Male ..	..	..	11.00 a.m. to 1.00 p.m.
Female ..	..	..	1.00 p.m. to 2.00 p.m.

SATURDAY

Male and Female	9.00 a.m. to 10 30 a.m.
--------------------	----	-------------------------

BOROUGH MORTUARY

The Borough Mortuary was closed on 1st January, 1965 as arrangements had been made for the Mortuary at the Gravesend & North Kent Hospital to assume responsibility for this work.

CORONER'S INQUESTS

H.M. Coroner has kindly supplied the following information for the year 1965:-

Total number of inquests	..	..	..	23
Number of inquests without post-mortems			..	1
Number of post-mortems without inquests			..	60

Verdicts:-

Accidental deaths	..	..	..	15
Suicides	..	..	..	6
Found drowned	..	..	..	-
Other verdicts	..	..	..	2

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

	Date taken	Probable numbers per 100 ml.		Plate count per ml.
		Coliform bacilli	Bact. Coli (type I)	
1.	Leith Park Road Pumping Station (treated)	18. 1. 65 15. 2. 65 15. 3. 65 20. 4. 65 10. 5. 65 14. 6. 65 12. 7. 65 16. 8. 65 14. 9. 65 19. 10. 65 16. 11. 65 14. 12. 65	None None None None None None None 1 None None None None None	None

BACTERIOLOGICAL EXAMINATION OF DRINKING WATER

Number of Samples	Date taken	Probable numbers per 100 ml.		Plate count per ml.
		Coliform bacilli	Bact. Coli (type 1)	
2.	Domestic Supplies (treated)			
		18. 1. 65	1	None
		15. 2. 65	2 or more	2 or more
1		18. 2. 65	None	None
3		15. 3. 65	None	None
3		20. 4. 65	None	None
3		10. 5. 65	None	None
3		14. 6. 65	None	None
3		12. 7. 65	1	None
3		16. 8. 65	None	None
1		24. 8. 65	None	None
4		14. 9. 65	None	None
3		19. 10. 65	None	None
3		16. 11. 65	2 or more	2 or more
1		24. 11. 65	2 or more	1
3		14. 12. 65	None	None

CHEMICAL ANALYSIS OF DRINKING WATER

Date taken:	19. 11. 65
Appearance:	Clear, bright
Odour:	None
	<i>Parts per million</i>
Free Chlorine	0.05
Free Ammonia	Nil
Albuminoid Ammonia	Nil
Nitrogen as Nitrite	Nil
Nitrogen as Nitrate	4.50
Chloride	17.00
Temporary Hardness	262.00
Total Hardness	280.00
Permanent Hardness	18.00
Sulphate	4.00
Oxygen absorbed from Permanganate in 4 hours	0.05
Total Solids	350.00
pH value	7.00
Microscopic examination	Very little mineral or vegetable matter

OPINION: This water is satisfactory.

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

(a)	Corporation Pool	Date taken	Where taken	Probable numbers per 100 ml.		Plate count per ml.
				Bact., Coli type I	Coliform bacilli	
		24. 5. 65	Deep end Shallow end Paddling pool	None None None	None None None	2 2
		28. 6. 65	Deep end Shallow end Paddling pool	None None None	None None None	2
		26. 7. 65	Deep end Shallow end Paddling pool	None None None	None None None	39
		16. 8. 65	Deep end Shallow end Paddling pool	None None None	None None None	None None None
		14. 9. 65	Deep end Shallow end Paddling pool	None None None	None None None	None None None

BACTERIOLOGICAL EXAMINATION OF BATHING POOL WATER

	Date taken	Where taken	Probable numbers per 100 ml. Coliform bacilli (type I)	Plate count per ml.
(b) School Pools	24. 5. 65	St. Joseph's Convent Westcourt Whitehill Cecil Road King's Farm	None None None None None	2 None None 1 1
	28. 6. 65	Westcourt Whitehill Cecil Road King's Farm St. Joseph's Convent	None None None None None	1 None 1 4 None
	26. 7. 65	Cecil Road Whitehill Westcourt King's Farm	2 or more None None None	Uncountable None None Uncountable
	14. 9. 65	Westcourt Whitehill Cecil Road St. Joseph's Convent	None None None None	None None None None

ATMOSPHERIC POLLUTION

Data extracted from the Analyst's monthly reports was supplied to the Thameside Joint Committee in the form shown in the following tables

(See notes at end of tables for details of abbreviations)

Site: Dashwood Lane Nurseries

Month	Rain mm	pH Value	Deposit (grams per 100 square metres)								
			TWIM	S/CS2	Ash	OCM	TWSM	Ca	Cl	SO4	TS
1964											
Oct.	41	6.32	356	2	278	76	479	73	29	193	834
Nov.	31	5.28	273	3	150	119	337	52	33	157	611
Dec.	36	5.80	272	2	208	62	374	72	47	152	646
1965											
Jan.	44	4.86	216	2	167	47	425	68	63	165	642
Feb.	10	5.70	141	2	101	38	259	44	36	118	401
Mar.	35	6.12	318	2	249	68	382	66	42	161	700
Total	197	34.08	1576	13	1153	410	2256	375	250	946	3834
Mean	33	5.68	263	2	192	68	376	63	42	158	639
Apr.	50	6.50	498	4	387	107	523	87	63	230	1021
May	33	5.90	200	4	184	12	317	38	24	122	517
June	51	6.20	351	3	278	70	340	49	24	163	691
July	65	6.20	444	2	353	89	356	49	42	165	800
Aug.	53	6.60	411	3	356	52	285	48	34	128	696
Sep.	132	5.20	394	7	314	72	327	46	65	140	721
Total	384	36.60	2298	23	1872	402	2148	317	252	948	4446
Mean	64	6.10	383	4	312	67	358	53	42	158	741

Site: Swimming Pool

Month	Rain mm	pH Value	Deposit (grams per 100 square metres)								
			TWIM	S/CS2	Ash	OCM	TWSM	Ca	Cl	SO4	TS
1964											
Oct.	37	5.80	497	5	346	145	542	97	47	267	1039
Nov.	27	5.08	316	6	223	87	466	69	46	184	782
Dec.	27	5.60	246	3	185	57	338	63	46	154	584
1965											
Jan.	37	4.60	252	4	188	60	420	65	67	181	672
Feb.	12	5.71	224	1	174	48	310	58	42	116	534
Mar.	27	6.13	355	3	271	81	382	71	45	160	737
Total	167	32.92	1890	22	1387	478	2458	423	293	1062	4348
Mean	28	5.49	315	4	231	80	410	71	49	177	725
Apr.	44	6.08	491	2	386	103	582	93	58	227	1072
May	22	6.10	371	6	292	73	315	47	32	119	686
June	43	6.40	290	6	219	65	297	41	24	154	587
July	52	6.30	275	5	198	72	345	47	34	182	620
Aug.	48	6.30	347	4	277	66	347	69	39	157	694
Sep.	117	5.30	301	6	248	47	442	53	42	217	743
Total	326	36.48	2075	29	1620	426	2328	350	229	1056	4402
Mean	54	6.80	346	5	270	71	388	58	38	176	734

Abbreviations:

TWIM	Total water insoluble matter
S/CS2	Soluble carbon disulphide
OCM	Other combustible matter
TWSM	Total water soluble matter
Ca	Calcium
Cl	Chloride
SO4	Calculated as sulphate
TS	Total solids

ATMOSPHERIC POLLUTION

Site	Rainfall inches	Measurement of Deposited Matter by Deposit Gauges		
		Insoluble Deposit	Soluble Deposit	Total Deposit (tons per square mile)
DASHWOOD LAND NURSERIES				
1965				
January	1.73	5.52	10.84	16.35
February	0.39	3.61	6.61	10.22
March	1.38	8.12	9.74	17.86
April	1.97	12.69	13.34	26.03
May	1.30	5.11	8.07	13.18
June	2.01	8.96	8.67	17.63
July	2.56	11.32	9.07	20.39
August	2.09	10.49	7.27	17.76
September	5.20	10.04	8.34	18.37
October	0.35	7.15	7.70	14.85
November	3.07	8.47	11.74	20.21
December	-	-	-	-
Mean	2.00	8.32	9.22	17.53

SWIMMING POOL

1965				
January	1.47	6.43	10.71	17.14
February	0.48	5.72	7.90	13.62
March	1.06	9.06	9.73	18.79
April	1.73	12.51	14.83	27.34
May	0.87	9.46	8.02	17.48
June	1.69	7.39	7.58	14.97
July	2.05	7.02	8.79	15.81
August	1.89	8.81	8.86	17.70
September	4.61	7.67	11.28	18.94
October	0.20	5.46	8.99	14.45
November	2.80	8.08	12.35	20.43
December	3.07	8.10	11.14	19.24
Mean	18.30	7.98	10.02	17.99

NOTE: No results were available for the Dashwood Lane Nurseries Site for December as the gauge was broken.

INVESTIGATION OF ATMOSPHERIC POLLUTION,
SMOKE AND SULPHUR DIOXIDE BY VOLUMETRIC METHOD

SITE: 3 Woodville Terrace

			SMOKE		SULPHUR DIOXIDE	
			Microgrammes per cubic metre		Microgrammes per cubic metre	
			Average value	Highest value	Average value	Highest value
5.	1. 65	-	1. 2. 65	122	441	158
2.	2. 65	-	1. 3. 65	118	411	148
2.	3. 65	-	5. 4. 65	82	354	127
6.	4. 65	-	3. 5. 65	55	141	108
4.	5. 65	-	31. 5. 65	27	55	57
1.	6. 65	-	5. 7. 65	19	61	31
6.	7. 65	-	2. 8. 65	11	27	20
3.	8. 65	-	6. 9. 65	13	27	38
7.	9. 65	-	4. 10. 65	17	35	31
5.	10. 65	-	1. 11. 65	41	185	86
2.	11. 65	-	6. 12. 65	39	96	134
7.	12. 65	-	3. 1. 66	30	73	130
						529

